

Amendments to the Claims:

38. (Currently Amended) A contact for forming redundant electrical connections with a contact pad, the contact comprising an arm stamp-formed from strip stock, the arm having a thickness, a width, first and second surfaces separated by the thickness of the arm and two opposed shear edges, each shear edge extending across the thickness of the arm and including a shear-formed rounded corner at ~~the junction of the edge and the first arm surface~~ and a shear-formed sharp corner at ~~the junction of the edge and the second arm surface~~; a first contact point at one shear edge; and a second contact point at the other shear edge, ~~each contact point said first and second contact points spaced apart across the width of the arm and extending above the portion of the first arm surface located between said contact points;~~ so that the ~~each~~ rounded edge corner at the point is positioned ~~extending around a contact point~~ above said first arm surface and faces facing away from such surface; wherein upon ~~relative~~ movement of the contact toward ~~the first~~ a contact pad the contact points engage such pad at the rounded corners on the contact points to form redundant electrical connections therewith.

39. (Currently Amended) The contact as in claim 38 including conductive plating on said ~~spring~~ arm at said contact points ~~so that said plating engages the first contact pad.~~

40. (Unamended) The contact as in claim 38 wherein said contact points are located on portions of said arm bent above said first arm surface.

41. (Currently Amended) The contact as in claim 40 wherein said spring contact has a thickness of about 0.0017 inches and said rounded corners have a radius of curvature between about 0.006 0.0006 inches and about 0.0010 inches.

42. (Currently Amended) The contact as in claim 41 wherein said portions comprise ears, each have ear having a longitudinal radius of curvature of about 0.012 inches.

43. (Currently Amended) The combination of a contact as in claim 38 and a first contact pad engaging said contact points, said pad including a first wipe trace engaging one of said contact points and a second wipe trace engaging the other of said contact points, each trace including an initial contact end and a final contact end, each contact point engaging the final contact end of a wipe trace.

44. (Currently Amended) The contact as in claim 38 wherein the arm is elongate and includes two ends, said first and second contact points are located at one end of the arm, and including a contact member at the other end of the arm ~~for engaging a second contact pad~~.

45. (Currently Amended) The contact as in claim 44 wherein said contact member comprises third and fourth contact points positioned above said first arm surface and facing away from such surface ~~for forming redundant electrical connections with the second contact pad~~.

46. (Currently Amended) The contact as in claim 45 wherein said third and fourth contact points each include a shear-formed rounded corner ~~engageable with said second contact pad~~.

47. (Currently Amended) A contact for forming redundant electrical connections with first and second spaced contact pads, said contact comprising an elongate body stamp-formed from uniform thickness metal strip stock and having spaced contact noses, a spring located between said noses to bias the noses against contact pads when the spring is compressed, each nose including two laterally spaced contact points extending above the nose, each contact point including a shear-formed rounded edge corner adjacent the contact pad and a shear-formed sharp edge corner away from the contact pad, wherein where the contact is sandwiched between the contact pads each contact point forms an electrical connection with a pad at a rounded edge corner.

48. (Unamended) The contact as in claim 47 wherein each nose comprises a portion of said body bent above the nose.

49. (Currently Amended) The contact as in claim 48 wherein said spring contact has a thickness of about 0.0017 inches and said rounded corners have a radius of curvature between about ~~0.006~~ 0.0006 inches and about 0.0010 inches.

50. (Unamended) The contact as in claim 49 wherein said portions comprise ears each having a longitudinal radius of curvature of about 0.012 inches.

51. (Unamended) The combination of a contact as in claim 50 and first and second spaced contact pads, each pad including a pair of spaced wipe traces each having an initial contact end and a final contact end, each pair of contact points engaging a pair of wipe traces on one pad at the final contact ends thereof.

52. (Unamended) The combination of claim 51 including conductive plating on said contact points and wherein said contact pads are not cut at said wipe traces.

Remarks

Claims 38 - 42 are rejected over the prior art Grabbe patent and claims 38, 39, 41, 43 and 44 are rejected under Section 112 as being indefinite.

Applicant submits the amendments to the rejected claims distinguish claims 38-42 from the Grabbe reference and render claims 38, 39, 41, 43 and 44 definite. The amendments meet all rejections and place all claims in condition for allowance. Entry and allowance are solicited.

The amendments to claim 38 removes indefiniteness by reciting that the arm has a thickness and a width and deleting limitations concerning "the junction of the edge and the first arm surface," and "the junction of the edge and the second arm surface." As amended, the "shear-formed rounded corner" and the "shear-formed sharp corner" are portions of each edge and are located adjacent the first arm surface and second arm surface, respectively.

Claim 38 as amended recites that the contact points are "spaced apart across the width of the arm and extending above the portion of the first arm surface located between said contact points." The contact points are claimed to form redundant electrical connections with a contact pad, which is not claimed.

In distinction, Grabbe discloses an elongate sinuous contact stamp-formed from strip stock where the first contact section 32 makes a single contact with a first pad 16 and the longitudinally spaced second contact portion 34 makes a single contact with a second separate contact pad 16a. Grabbe does not disclose or

suggest first and second contact points spaced across the width of the arm and extending above the portion of the adjacent surface located between the points. Further, Grabbe does not teach contact points with shear-formed rounded corners extending around points above the adjacent arm surface and facing away from the surface.

The amendments to claim 38 remove indefiniteness and patentably distinguish the claim from Grabbe.

Claim 39 is amended to delete "spring" and the final phrase "so that said plating engages the first contact pad."

Claim 41 has been amended to correct a typographical error concerning the minimum radius of curvature of the rounded corners. Antecedent basis is found in the specification at page 10, line 2. This amendment is made voluntarily and is not made in response to a statutory rejection. Entry is solicited.

Claim 43 adds a contact pad as an element of the combination. The claim is amended to delete "first" since no additional pad is claimed.

Claim 44 as amended recites that the arm includes two ends. Reference to a second contact pad is canceled.

Claim 49 is amended to correct the minimum radius of curvature, consistent with the amendment to claim 41.

The amendments to claims 42 and 47 are voluntary and correct drafting errors.

Entry of the amendments and allowance are solicited.

In the event the amendments are not found to place the application for condition for allowance, entry is solicited in order to place the claims in better form for consideration on appeal.

Respectfully submitted,

ROBERT H. BREEDEN, ET AL.

By: Thomas Hooker  
Thomas Hooker, Esquire  
Hooker & Habib, P. C.  
Attorney of Record  
Registration No. 22,040  
100 Chestnut Street, Suite 304  
Harrisburg, PA 17101  
(717) 232-8771